A–568 ♦ Appendix Tables

Appendix table 8-26. Public assessment of genetic engineering, by selected characteristics: 1985–99 (selected years)

Characteristic	1985	1990	1995	1997	1999				
Percent									
All adults									
Benefits strongly outweigh harmful results	23	20	21	19	20				
Benefits slightly outweigh harmful results	26	27	22	23	24				
Benefits equal harmful results	12	16	22	22	18				
Harmful results slightly outweigh benefits	14	19	23	20	22				
Harmful results strongly outweigh benefits	25	18	12	16	16				
Male									
Benefits strongly outweigh harmful results	26	21	24	23	24				
Benefits slightly outweigh harmful results	28	31	22	26	26				
Benefits equal harmful results	11	14	21	20	17				
Harmful results slightly outweigh benefits	13	18	22	17	21				
Harmful results strongly outweigh benefits	22	16	10	14	12				
Female									
Benefits strongly outweigh harmful results	19	19	18	16	16				
Benefits slightly outweigh harmful results	25	23	22	21	22				
Benefits equal harmful results	14	17	22	23	20				
Harmful results slightly outweigh benefits	15	21	23	22	22				
Harmful results strongly outweigh benefits	27	20	15	18	20				
Less than high school graduate									
Benefits strongly outweigh harmful results	19	16	10	15	18				
Benefits slightly outweigh harmful results	29	27	19	18	19				
Benefits equal harmful results	16	25	30	23	27				
Harmful results slightly outweigh benefits	12	17	29	30	21				
Harmful results strongly outweigh benefits	24	15	13	14	15				
High school graduate									
Benefits strongly outweigh harmful results	21	19	20	18	18				
Benefits slightly outweigh harmful results	24	27	21	24	24				
Benefits equal harmful results	13	12	21	21	16				
Harmful results slightly outweigh benefits	15	21	23	18	24				
Harmful results strongly outweigh benefits	27	21	14	19	18				
Baccalaureate and higher	2,	2.		. ,	10				
Benefits strongly outweigh harmful results	33	29	35	27	27				
Benefits slightly outweigh harmful results	29	28	30	28	28				
Benefits equal harmful results	7	15	16	21	16				
Harmful results slightly outweigh benefits	13	15	14	14	17				
Harmful results strongly outweigh benefits	18	13	6	10	12				
Attentive public to science and technology ^a	10	13	0	10	12				
Benefits strongly outweigh harmful results	37	32	42	36	33				
Benefits slightly outweigh harmful results	28	30	22	24	31				
Benefits equal harmful results	9	9	16	13	8				
Harmful results slightly outweigh benefits	12	12	13	16	19				
Harmful results strongly outweigh benefits	14	17	7	11	9				
	14	17	,	1.1	7				
Attentive public to medical research ^a	29	31	34	27	28				
Benefits strongly outweigh harmful results	29 24	31 27	34 21	2 <i>1</i> 25	28 24				
Benefits slightly outweigh harmful results			∠ı 17						
Benefits equal harmful results	12	12 17		18	12				
Harmful results slightly outweigh benefits	11	17	18	18	23				
Harmful results strongly outweigh benefits	24	13	9	12	13				

See explanatory notes, if any, and SOURCE at end of table.

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Appendix table 8-26. Public assessment of genetic engineering, by selected characteristics: 1985-99 (selected years)

Characteristic	1985	1990	1995	1997	1999				
Sample size									
All adults	2,005	2,033	2,006	2,000	1,882				
Male	950	964	953	930	900				
Female	1,054	1,070	1,053	1,070	982				
Less than high school graduate	507	495	418	420	403				
High school graduate	1,143	1,179	1,196	1,188	1,111				
Baccalaureate and higher	349	359	392	392	368				
Attentive public to science and technology ^a	235	229	195	288	216				
Attentive public to medical research ^a	349	337	310	377	301				

NOTES: In 1985, the question was worded, "Some persons have argued that the creation of new life forms through genetic engineering constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, are the risks of genetic engineering greater than the benefits, or are the benefits of genetic engineering research greater than the risks? Would you say that the benefits are substantially greater than the risks, or only slightly greater than the risks? Would you say that the risks are substantially greater than the benefits or only slightly greater than the benefits?" In 1990, the question was worded, "Some persons have argued that the creation of new life forms through genetic engineering research constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, are the risks of genetic engineering research greater than its benefits, or are the benefits of genetic engineering research greater than its risks? Would you say that the benefits have substantially exceeded the risks or only slightly exceeded the risks? Would you say that the risks have substantially exceeded the benefits or only slightly exceeded the benefits?" In 1995, the question was worded, "Some persons have argued that the creation of new life forms through genetic engineering research constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, have the benefits of genetic engineering research outweighed the harmful results, or have the harmful results of genetic engineering research been greater than its benefits? Would you say that the balance has been strongly in favor of beneficial results or only slightly? Would you say that the balance has been strongly in favor of harmful results or only slightly?" In 1997 and 1999, one-half of the respondents were asked the question used in 1995. The other onehalf were asked: "Some persons have argued that the modification of existing life forms through genetic engineering research constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, have the benefits of engineering research outweighed the harmful results, or have the harmful results of genetic engineering research been greater than its benefits? Would you say that the balance has been strongly in favor of beneficial results or only slightly? Would you say that the balance has been strongly in favor of harmful results or only slightly?" Percentages may not total 100 because of rounding.

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue area, report that he or she is "very well informed" about it, and be a regular reader of a daily newspaper or relevant national magazine. Citizens who report that they are "very interested" in an issue area, but who do not think that they are "very well informed" about it, are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

SOURCES: National Science Foundation, Division of Science Resource Studies (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 1999 (and earlier years). For a complete set of data from the survey, see J.D. Miller and L. Kimmel, Public Attitudes Toward Science and Technology, 1979–1999, Integrated Codebook (Chicago: International Center for the Advancement of Scientific Literacy, Chicago Academy of Sciences, 1999); and unpublished tabulations.

See figures 8-12 and 8-13 in Volume 1.

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